AG - 10

Parts & Service

AG – 10 Specifications

Capacity (struck)……..8.4 yd

(heaped)…….10 yd

Weight (empty)……...17,512

Tongue Weight (empty)……..1,500

Width of Cut……..8 ft

Overall Width……9 ft. 1 in.

Ground Clearance At Bit……18 in.
Negative Cut……12 in.

Overall Length……...348 in.

Gate Opening…….46 in.

Cylinders (lift)……..6 x 22
(gate)……3.5 x 20
(push off)…….4.5 x 32

Tires (front)……..15 x 19.5
(rear)……..20.5 x 25

Inflation 15 x 19.5 ……... 60 psi
20.5 x 25……. 58 psi

Rims (front)……19.5 x 12.25
(rear)……17 x 25 3 pc

Cutting Edges
(center)……..7/8 x 16 x 48”
(outside)……7/8 x 13 x 23.75”

Spindle Rating
(front)……12,000 lb
(rear)…….20,000 lb

Hydraulic Hoses…….3000 psi

Hydraulics are controlled by a 2 valve system, using a steel sequencing block and requiring 2 tractor remotes.

Scheduled Maintenance

A quality, high temperature grease should be used when lubricating the machine. Most areas of lube are scheduled daily, (8 to 10 hrs. of running). There are 24 grease zerks on the Ag 10 that should be greased daily. There are also 1 zerk per axle that are greased weekly with 3 pumps of grease.

All bolts are torqued at the factory during assembly. After 24 to 36 hours of running, the Dealer service should recheck the torque on bolts, wheel, axle, and pin retainers. Each time the machine is greased, the operator or maintenance should look at these areas and the bolts involved, to be sure none are working loose. After each 1000 hours of operation with the machine, the hitch, wheel, axle and pin retainers should be retorqued, per the torque value chart in this manual.

For safety, identification, and general information, all missing or damaged decals on the machine should be replaced.

The ICON AG 10 has the interior of the bowl painted with a carbon base graphite paint, which rejects dirt. Should that paint wear off over a period of time, replacement paint may be ordered by the gallon through the original dealer.

The cutting bits for the earthmover are available through ICON, or local CAT Dealers. Refer to the cutting edge section of this manual for size and part numbers.

All retaining pins have replaceable bushings. Watch the pin locations in action to review for loose and worn operation.

The timing of the loaded machine is critical to it's performance. On the 2 valve setup, it is important that the gate and push off wall work as they should. Adjustments to the timing can be made at the sequence block on the tongue of the machine. (refer to the timing chart in the manual for instructions).

Remember, the longevity of your machine will depend on proper operation and maintenance.

Warning!

To prevent a hazardous situation, which if not avoided can result in injury or death.
Read and follow these instructions!

- Read and understand the operator's manual before operating the machine. Allow no one to operate the machine before reading the manual and being instructed on the proper operation.
- Before servicing the machine, block the wheels, shut the tractor off, set the brakes, and remove the key. If working under the machine, block the machine up for a safe and secure working area. Apply any and all safety stops provided.
- When working with hydraulic lines, cylinders, or fittings, wear protective clothing and safety glasses to guard against high pressure oil leaks.
- Do not allow anyone on, or near the machine while it is running or in motion.
- Do not operate the machine on a steep incline or slope that could create an imbalance or rollover.

The safety Alert symbol is shown above. It is used in potentially dangerous areas. When you see this symbol on the machine or in this manual be aware that precautions should be taken to avoid personal injury, to yourself or others.

Follow all safe operating procedures!

Signal Words

Signal words are used along with the safety alert symbols to keep people aware that a serious injury risk is present.

DANGER—Marks the most serious

WARNING and CAUTION signs are normally used for general safety precautions.

DANGER

To prevent a hazardous situation, which if not avoided can result in injury or death, read and follow these instructions!

- ✓ Read and understand the operator's manual before operating the machine. Allow no one to operate the machine before reading the manual and being instructed on proper operation.
- ✓ Before servicing the machine, block the wheels, shut the tractor off and set the brake. If working under the machine, block the machine up for a safe and secure working area. Apply any safety stops provided.
- ✓ When working with hydraulic lines, cylinders, or fittings, wear protective clothing and safety glasses to guard against high pressure oil leaks.
- ✓ Do not allow anyone on or near the machine while it is running or in motion.
- ✓ Do not operate the machine on a steep incline or slope that could create an imbalance or rollover.

WARNING

* Maximum machine speed, 25 mph. Slow to a safe speed on steep declines, curves, rough terrain, side slopes, and around equipment and people.
* Replace or repair damaged hydraulic lines or fittings.
* Transport this machine only with a vehicle having power, brakes, and capacity to control the gross vehicle weight.

CAUTION

* Do not alter the design of this machine. Doing so could create a safety hazard, reduce the durability or performance, and/or may alter the ICON Warranty.
* Maintain proper bolt torque on the wheels and hitch.
* Replace any missing or damaged machine decals.

Moving Parts

Be aware of all moving parts of the machine.

Do not allow anyone to be near, or on the machine while operating any moving parts.

High Pressure fluid can cause serious damage to hands and eyes.

Carefully relieve pressure before attempting any adjustment.

Tighten all fittings before applying pressure.

If fluid is sprayed into eyes or injected into skin.

SEE A DOCTOR IMMEDIATELY!

WARNING
High pressure fluid hazard !
To prevent serious injury or death:
• Carefully relieve pressure on system before adjusting, repair, or disconnect
• Wear proper hand and eye protection when servicing.
• Repair or replace all bad components.

Pinching or Crushing Danger

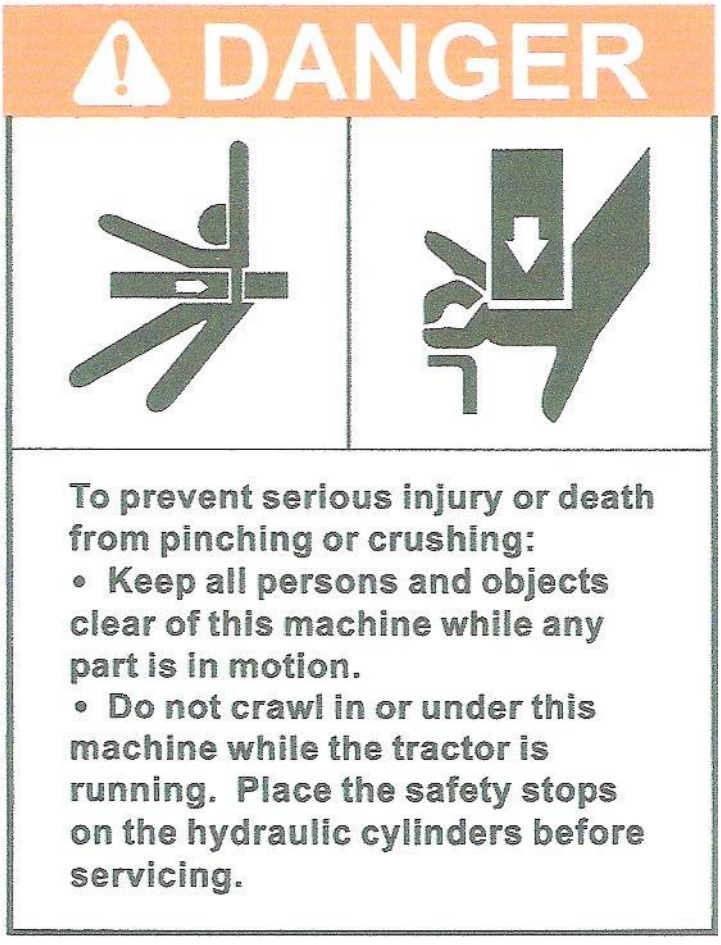
Moving parts that are operated by hydraulic pressure can cause serious injury or death.

Use extreme caution when working around any moving part.

Do Not allow any person to be on or near the machine while it is in motion.

Replace all missing or damaged safety signs and decals.

A list of the signs/decals and their placement, is located in the back of this manual.


DANGER
To prevent serious injury or death from pinching or crushing:
• Keep all persons and objects clear of this machine while any part is in motion.
• Do not crawl in or under this machine while the tractor is running. Place the safety stops on the hydraulic cylinders before servicing.

Foreword

Literature Information

This information should be stored in the literature holder located on the machine.

This manual contains safety information, operating instructions, lubrication and maintenance information.

Some of the photographs or illustrations in the publication show details that can differ slightly from your personal machine. Shields and covers may have been removed to allow for illustrations.

Constant improvement and knowledge of product design may cause changes to your personal machine that is not listed in this manual. Read, understand, and keep this manual with the machine to aid in repairs, adjustment, service and parts identification.

Whenever a question arises regarding your machine, or this manual, please contact Product Support for assistance.

Safety

The safety section of this manual lists basic safety precautions. In addition, this section shows the location of safety signs and decals used on this machine.

Read and understand the basic precautions listed in the safety section before operating or performing lubrication, maintenance or repair work on this machine.

NOTE: Before any service or repair work is performed, make certain that all safety stops are in place.

Be certain to remove all safety stops when repairs are complete.

Operation

This operation section is a reference guide for the new operator and a refresher for the experienced operator. Operating techniques shown are basic, skill and technique will increase with knowledge and usage of the machine.

Maintenance

The maintenance section is a guide to machine care. The illustrated step by step procedures covers the most important of the maintenance schedule. Regular routine lubrication is described in less detail.

Maintenance Intervals

Normally, all lubrication should be on a daily basis. However, certain locations only require lubrication on a weekly basis or require a specific quantity. These locations will be marked clearly, showing and describing requirements.

Under extremely severe, dusty/wet/sandy conditions, or if the haul is long and rough, more frequent lubrication and inspection of highly stressed areas is recommended.

Safety Section
General Hazard Information

A "Do Not Operate" warning tag or similar warning tag should be attached to the start switch or controls before servicing or repairing the machine.

Know the width of your equipment in order to maintain proper clearance when you operate the machine(s) near fences or boundary obstacles.

Be aware of high voltage power lines or buried power cables. If the machine comes in contact with these hazards, serious injury or death may occur, from electrocution.

Wear a hard hat, protective glasses, and other protective equipment, as required.

Do not wear loose clothing or jewelry that can snag on controls or other parts of the machine.

Make sure all protective shields and covers are secured in place on the machine.

Obey all local regulations for the disposal of liquids.

Do not allow unauthorized personnel on the machine

Unless you are instructed otherwise, perform maintenance with the machines in the servicing position. The operation and maintenance manual will describe the proper position.

Never put maintenance fluids (hydraulic) into glass containers. Drain all liquids into suitable containers.

Trapped Pressure

Pressure can be trapped in a hydraulic system. Releasing trapped pressure can cause sudden movement of the machine. Use caution if you disconnect hydraulic lines or fittings. High pressure oil that is released, can cause a hose to whip. High pressure oil that is released, can cause oil to spray.

Fluid penetration can cause serious injury or death.

Fluid Penetration

Pressure can be trapped in a hydraulic system, long after the engine has been stopped. The pressure can cause fluid or fittings/ends to detach rapidly, if the pressure is not released properly.

Do not remove any hydraulic components until pressure has been relieve, or personal injury may result. Do not disassemble any hydraulic components or parts until the pressure has been relieved, or personal injury may occur.

Always use a board or protective shield when you check for high pressure leaks. Hydraulic fluid is under extreme pressure and can cause serious injury and possible death. A pin hole leak can cause severe injury. If fluid is injected into your skin, you must seek treatment immediately. Seek treatment from a doctor that is familiar with this type of injury.

Containing Fluid Spillage

Care should be taken to prevent spillage of hydraulic fluids during maintenance, testing, and repair of the machine. Prepare to collect any fluid with suitable containers before opening any system containing fluids.

Obey all local regulations for the disposal of liquids.

Improperly disposing of waste fluids can threaten the environment. Potentially harmful fluids should be disposed of according to local regulations.

Always use leakproof containers when you drain fluids. Do not pour waste onto the ground, or into any source of water.

Crushing/Cutting Prevention

Support the machine properly before you perform any repairs or maintenance beneath that machine. **Do not** rely on the cylinders to hold the machine up. If a control is moved or a hydraulic line breaks, the machine can fall.

Never attempt adjustments while the machine is in motion.

Stay clear of all rotating and moving parts.

If it is necessary to remove shields or panels for repairs/maintenance, be certain to replace them before using the machine.

When you strike a pin or retainer with force, chips and other debris can fly off the object.

Make sure that no one can be injured by flying debris before striking any object. To avoid injury to your eyes, wear protective glasses when striking any object.

Make certain that the cylinder stops are in place before making any adjustment/repairs under the machine.

The stop pins should be in place on the clam before working around the front of the machine.

Line, Tubes and Hoses

Inspect all lines and hoses for wear and chaffing. The hoses must be properly routed and have adequate support and the clamps should be secure.

Tighten all connections to the recommended torque.

Do not bend high pressure lines. Do not install any lines that are bent or damaged.

Repair any lines that are loose or damaged.

Check lines, tubes and hoses carefully. Do not use your bare hands to check for leaks. Use a board or cardboard to check, as high pressure fluid can enter soft tissue.

Tighten all fittings and clamps to proper torque specs.

Replace the parts if any of the following conditions are present.

- End fittings are damaged or leaking.
- Outer coverings are chafed or cut.
- Wires are exposed.
- Outer coverings are ballooning.
- Flexible part of the hoses are kinked.
- Outer covers have embedded armoring.
- End fittings are displaced.

Before Operation

Clear all personnel from the area.

Clear all obstacles that are in the path of the machine. Beware of hazards, such as wires, ditches, etc.

Whenever you are working around this machine, always wear the protective equipment that is required by the conditions of the job site.

Refer to the "Daily Walk around Inspection " for tips on what to look for, before daily use.

Be aware of the width of your machine, and be certain there is enough clearance for you to maneuver without hitting obstacles beside you.

General Operation

Each scraper operator has his/her own methods of hydraulic sequence and overall operation of the machine. The following are suggestions as to the ICON Earthmover. Personal methods and choice of tractors may alter these suggestions.

The ICON/Landoll machine is completely assembled and checked at the factory. It is requested of the Dealer that after the first 24-36 hours of operation, the machine is then checked , and adjusted, if needed. There are 24 zerks of the AG-10 that are marked grease daily, and 1 on each axle that are grease weekly. Each bolt is torqued to proper specs at the factory, and after the initial 24 - 36 hours of running, should be rechecked. All retaining pins have replaceable bushings. Watch the pin locations in action to review for loose and worn operation.

Hydraulic hose configuration at the front of the machine is arranged to fit the late model remotes. Some pulling units may require the relocation of the hydraulic hose configuration. A two-valve sequencing set-up is standard. This allows the raise/lower to be controlled by valve #1, and gate/push-off by valve #2. The operation of these valves is left to operator choice, for push/pull . This is controlled by the position of the hoses at the tractor. On a two valve system, the timing of the loaded machine is critical to it's performance. It is important that the gate and push off wall work as they should. Adjustments to the timing is made at the sequence block, located on the tongue of the machine. This setting is factory set, but in time, can need re-adjustment. (Refer to the timing chart in the manual for instructions.)

A visual depth gauge is located at the right side, front of the machine. It allows the operator to set the cutting edge to the proper depth for a smooth cut, or eject depth of the load. (It is marked in tenths of an inch)

The ICON/Landoll Earthmovers have portions of the bowl painted with a carbon based, graphite paint, which helps to reject dist. Should this paint wear off over a period of time, replacement paint may be ordered thru the dealer.

Be patient for the first few hours of learning to operate the machine. Time and experience will produce expert results. Any type of cutting edge machine will have the tendency to create a "washboard" effect, if too much speed and inconsistent depth is used. Also, if the machine is used to "back level" or drag , be certain that the gate is in the fully up position and the push off wall is completely forward. This allows the operator to carry a small amount of material to fill with (if needed).

This machine is designed to be used with a pulling unit of 400 hp. maximum. Additional horsepower will shorten the life of the unit and will alter the warranty. Responsible operation and proper maintenance will provide many hours of expert results and a durable machine.

NOTE: This machine is not intended for highway use, it should be used off road only. If public roadway travel is necessary, be certain of regulations concerning width, lighting, and safety requirements.

WARNING!

- Read and understand the operator's manual before operating the machine. Allow no one to operate the machine before reading the manual and being instructed on the proper operation.
- Before servicing the machine, block the wheels, shut the tractor off, set the brakes, and remove the key. If working under the machine, block the machine up for a safe and secure working area. Apply any and all safety stops provided.
- When working with hydraulic lines, cylinders, or fittings, wear protective clothing and safety glasses to guard against high pressure oil leaks.
- Do not allow anyone on, or near the machine while it is running or in motion.
- Do not operate the machine on a steep incline or slope that could create an imbalance or rollover.

Component location

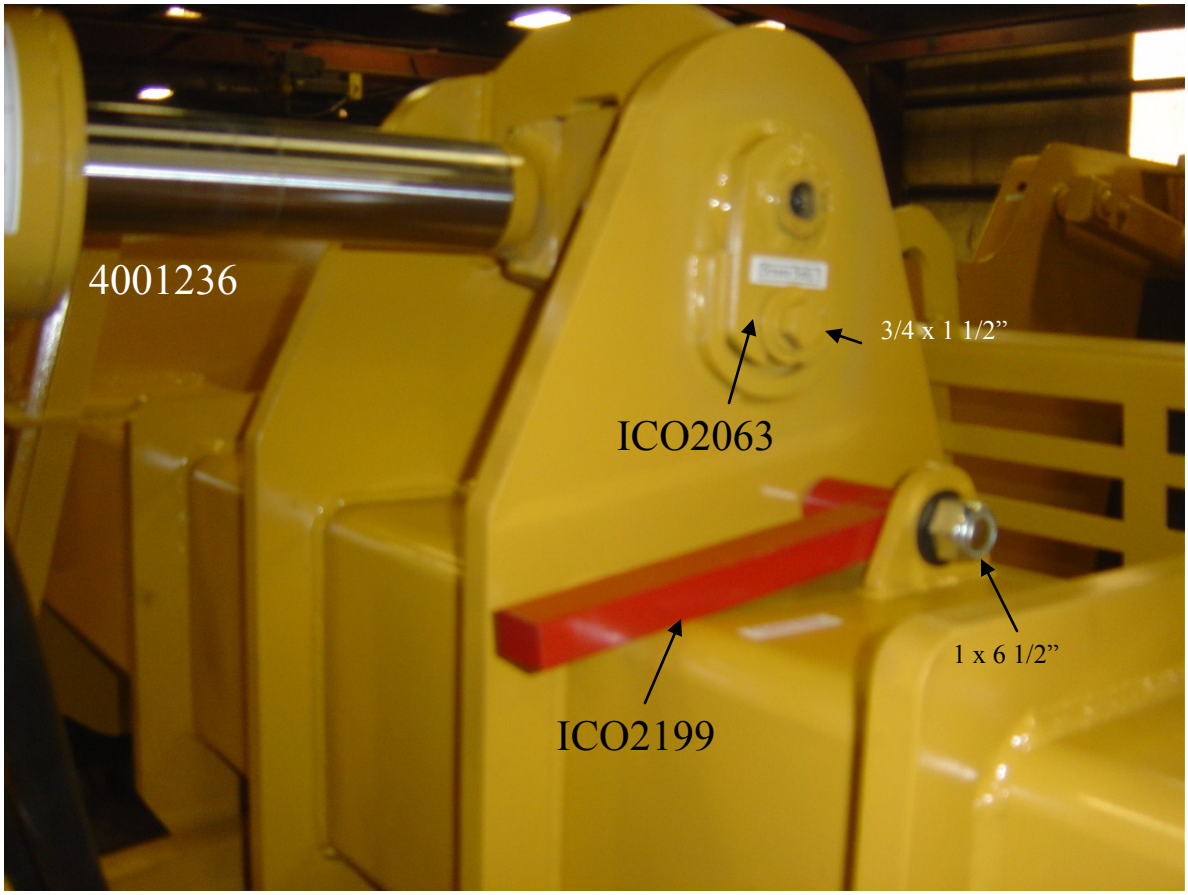
ICO2259
ICO2063
ICO0239
ICO2258
ICO2233
4001544

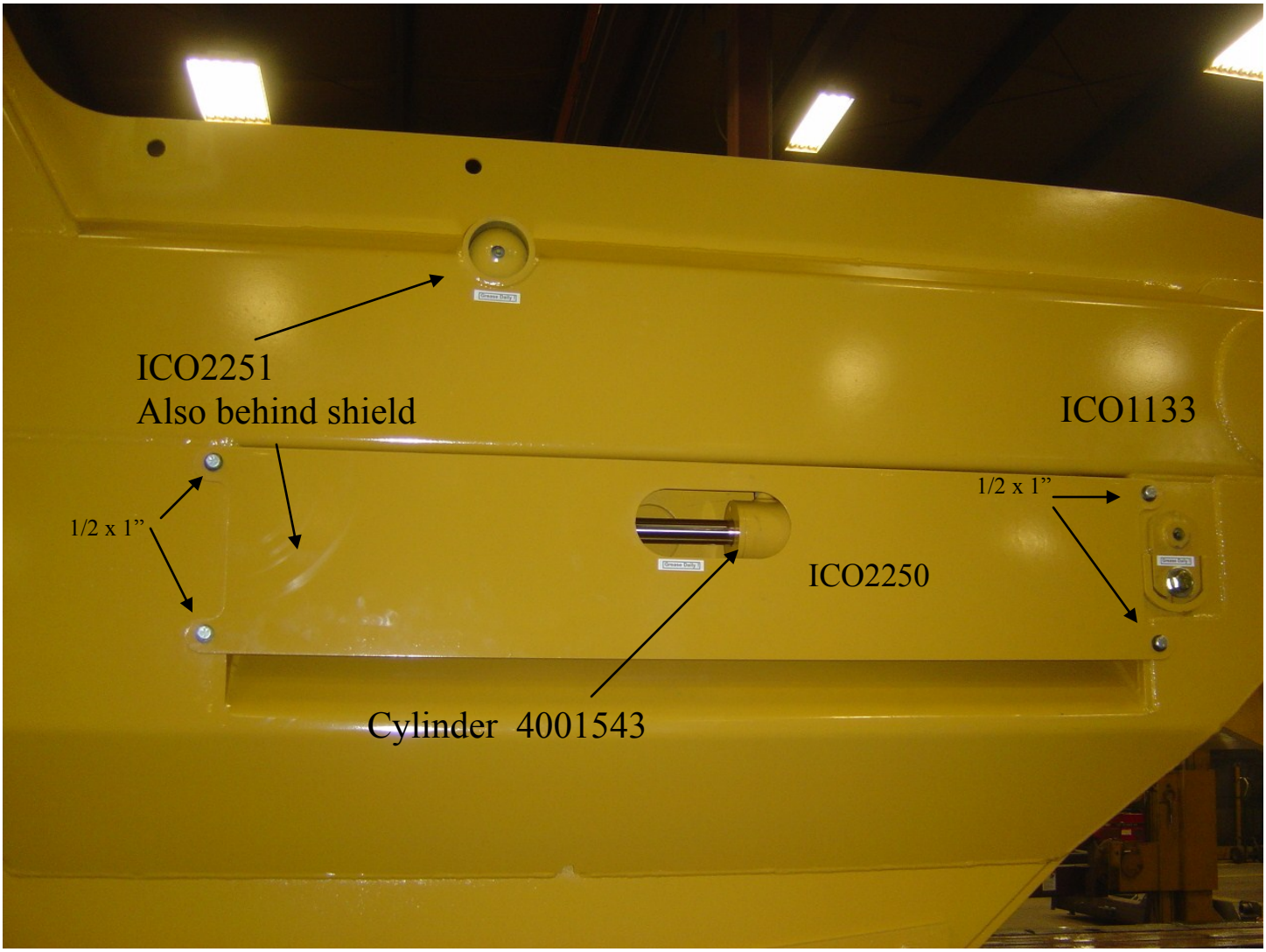
5/8 x 7”
ICO1066
4001452
4001541 Spindle

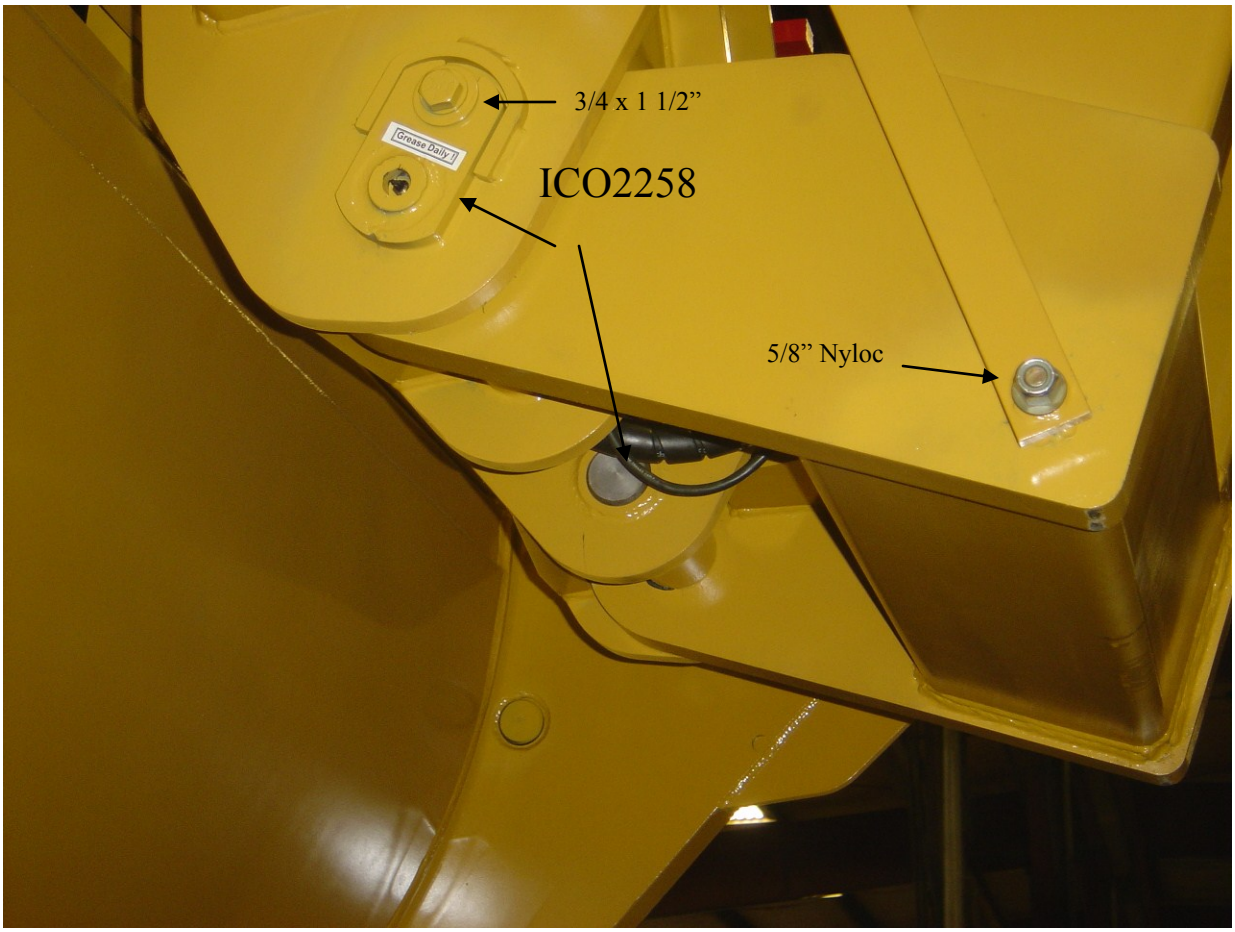
ICO2259
ICO2063
ICO2233
ICO0239
ICO2199
ICO2248
ICO2258
ICO2250
ICO2230
ICO2262
ICO2172/73
4001252
4001544

ICO0229
ICO1066
5/8 x 7”
4001541 Spindle
4001452

ICO2230
ICO2259
ICO2261
6
4
2
0
2
4
6

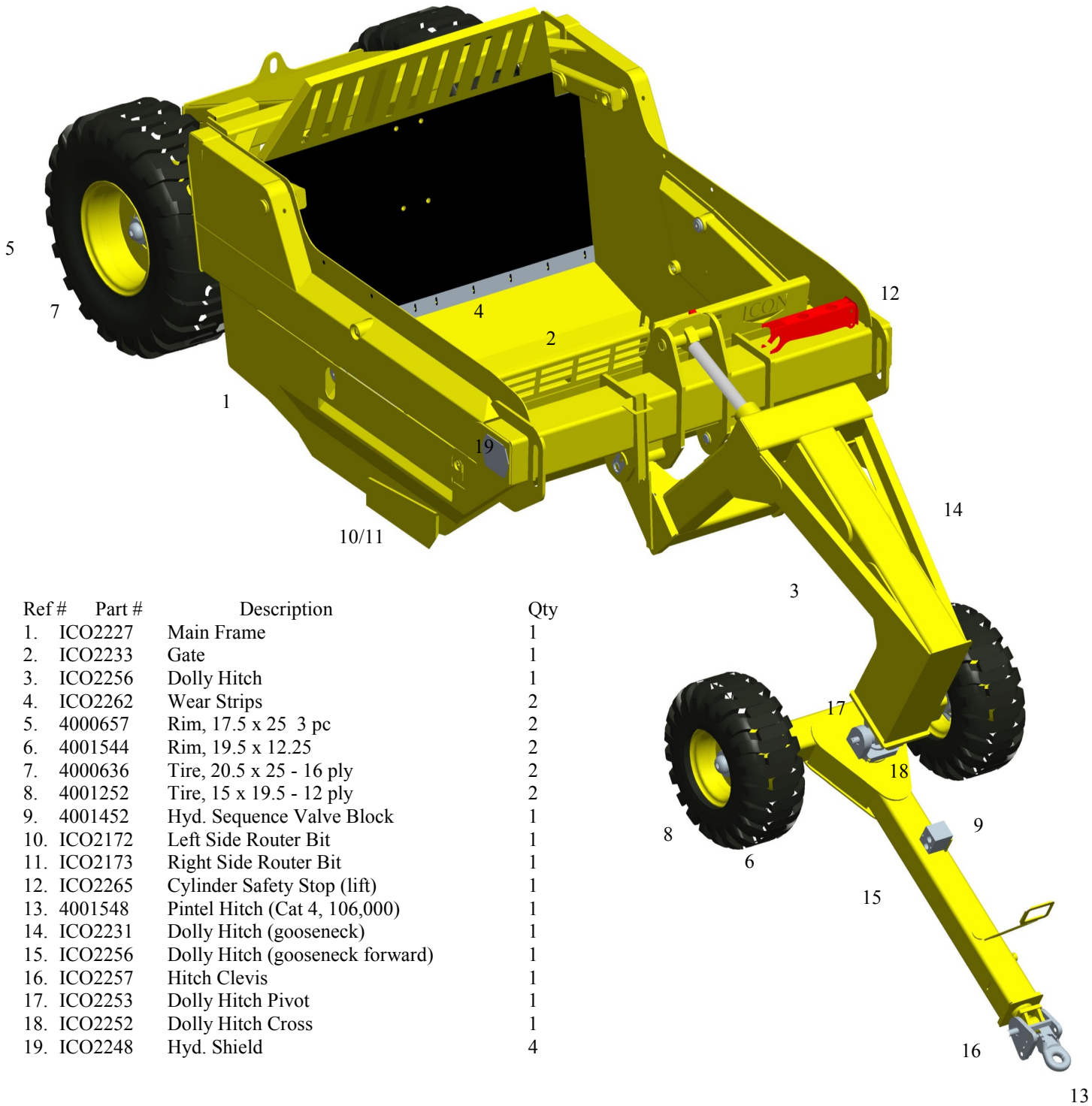

4001236
3/4 x 1 1/2”
ICO2063
1 x 6 1/2”
ICO2199


ICO2251
Also behind shield
ICO1133
1/2 x 1”
1/2 x 1”
ICO2250
Cylinder 4001543

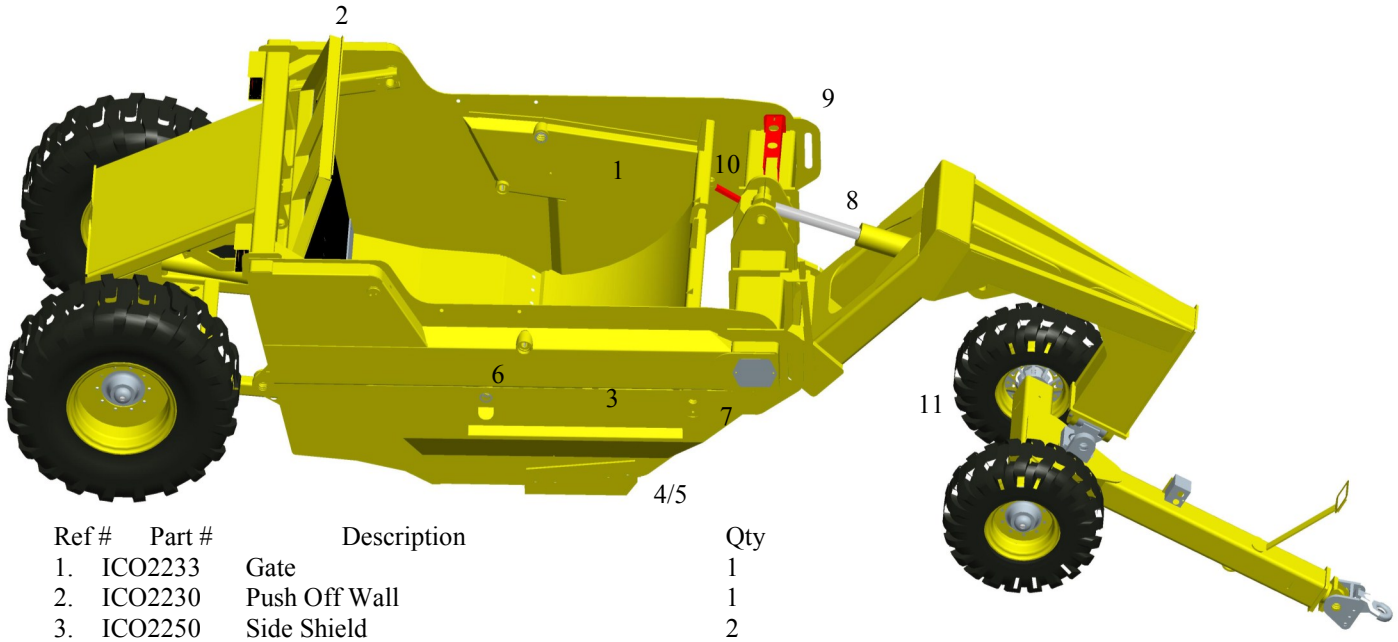

3/4 x 1 1/2”
ICO2258
5/8” Nyloc

Dolly Transport Strap ICO2263

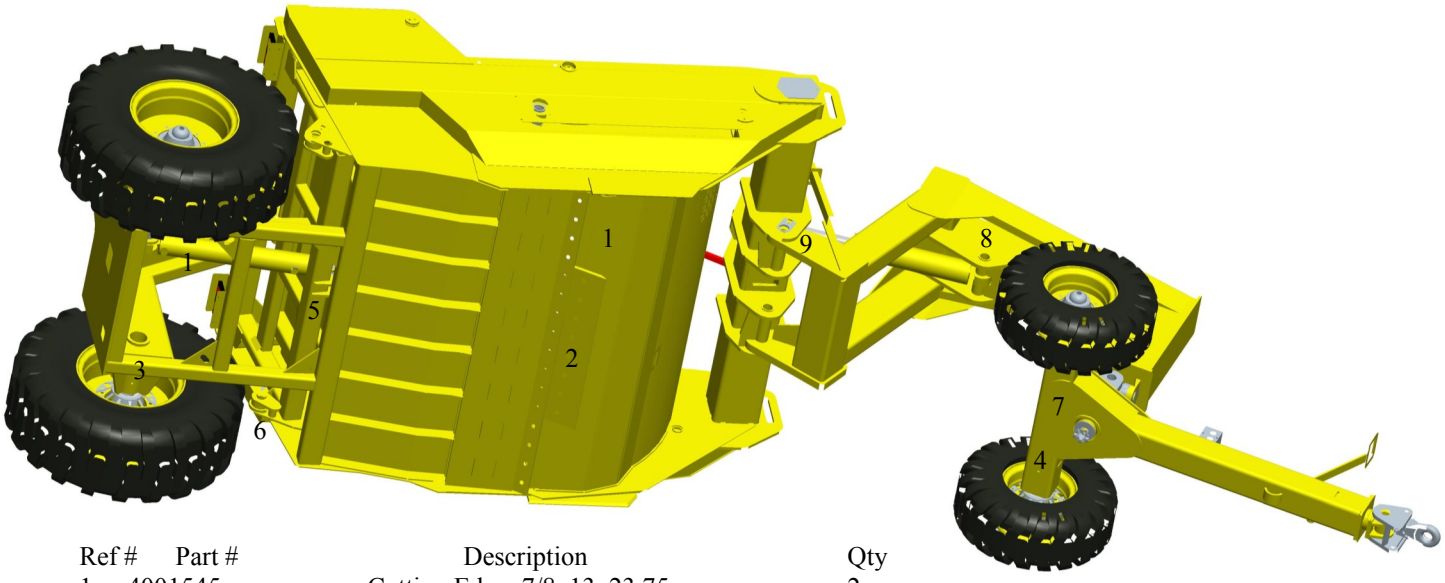
AG -10 Parts Location



Ref #	Part #	Description	Qty
1.	ICO2227	Main Frame	1
2.	ICO2233	Gate	1
3.	ICO2256	Dolly Hitch	1
4.	ICO2262	Wear Strips	2
5.	4000657	Rim, 17.5 x 25 3 pc	2
6.	4001544	Rim, 19.5 x 12.25	2
7.	4000636	Tire, 20.5 x 25 - 16 ply	2
8.	4001252	Tire, 15 x 19.5 - 12 ply	2
9.	4001452	Hyd. Sequence Valve Block	1
10.	ICO2172	Left Side Router Bit	1
11.	ICO2173	Right Side Router Bit	1
12.	ICO2265	Cylinder Safety Stop (lift)	1
13.	4001548	Pintel Hitch (Cat 4, 106,000)	1
14.	ICO2231	Dolly Hitch (gooseneck)	1
15.	ICO2256	Dolly Hitch (gooseneck forward)	1
16.	ICO2257	Hitch Clevis	1
17.	ICO2253	Dolly Hitch Pivot	1
18.	ICO2252	Dolly Hitch Cross	1
19.	ICO2248	Hyd. Shield	4

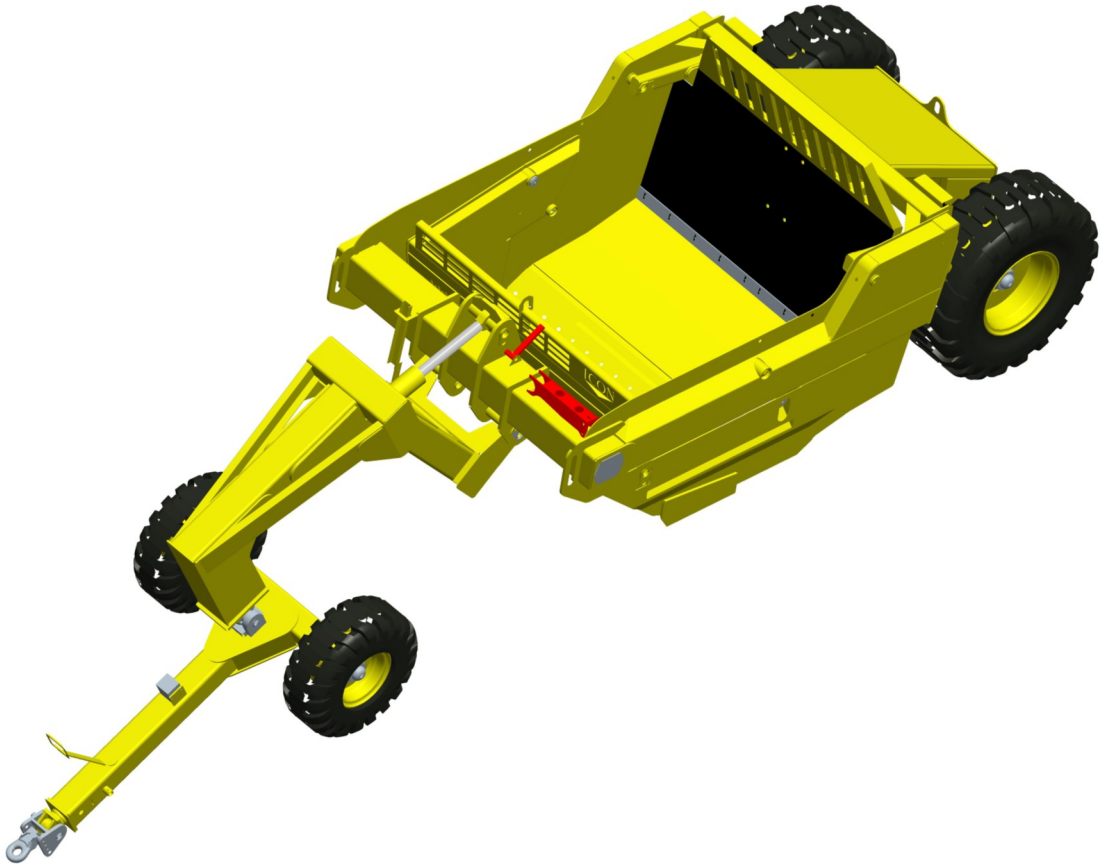


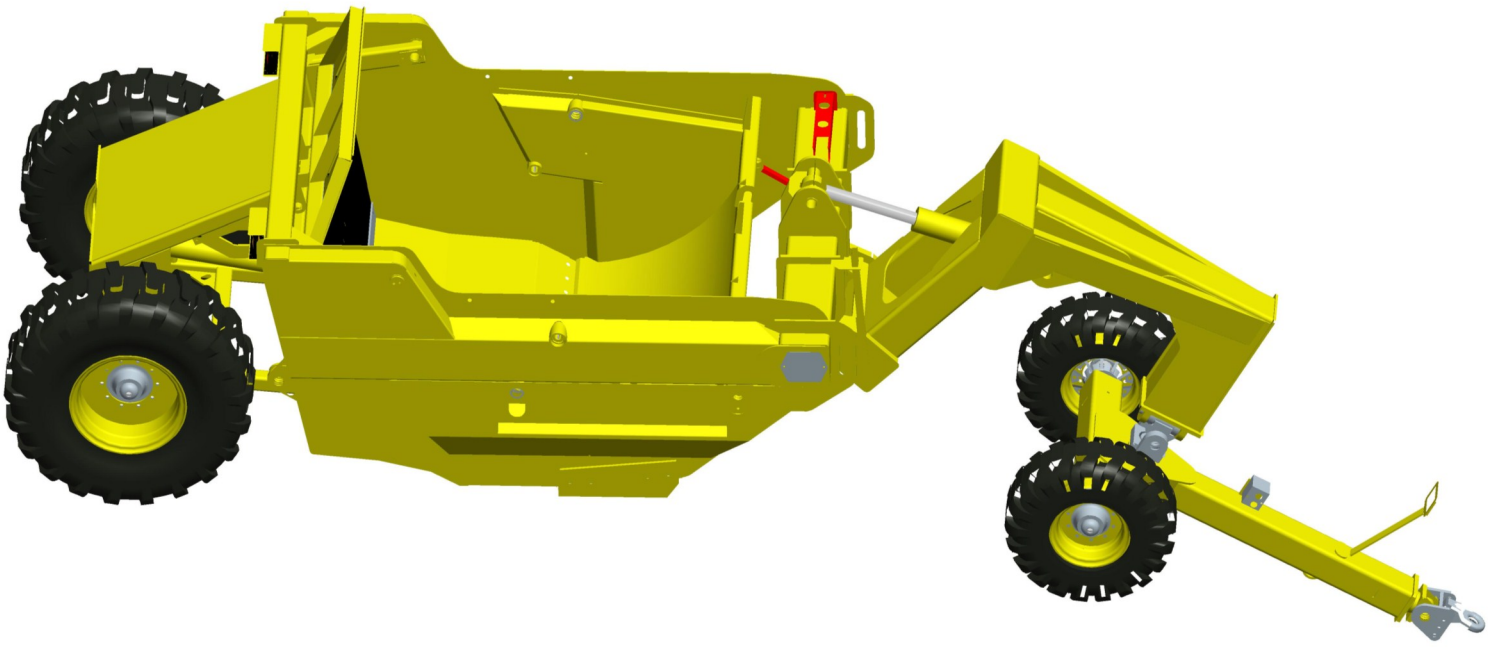
Ref #	Part #	Description	Qty
1.	ICO2233	Gate	1
2.	ICO2230	Push Off Wall	1
3.	ICO2250	Side Shield	2
4.	ICO2172	Left Side Router Bit	1
5.	ICO2173	Right Side Router Bit	1
6.	ICO2251	Tapered Gate Pin	4
7.	ICO1133	Pin, 2.5 x 5.75	7
8.	4001236	Hyd. Cylinder 6 x 22 (37 1/4")	1
9.	ICO2265	Safety Stop (lift)	1
10.	ICO2199	Safety Stop (gate)	1
11.	ICO2263	Dolly Transport Strap	1



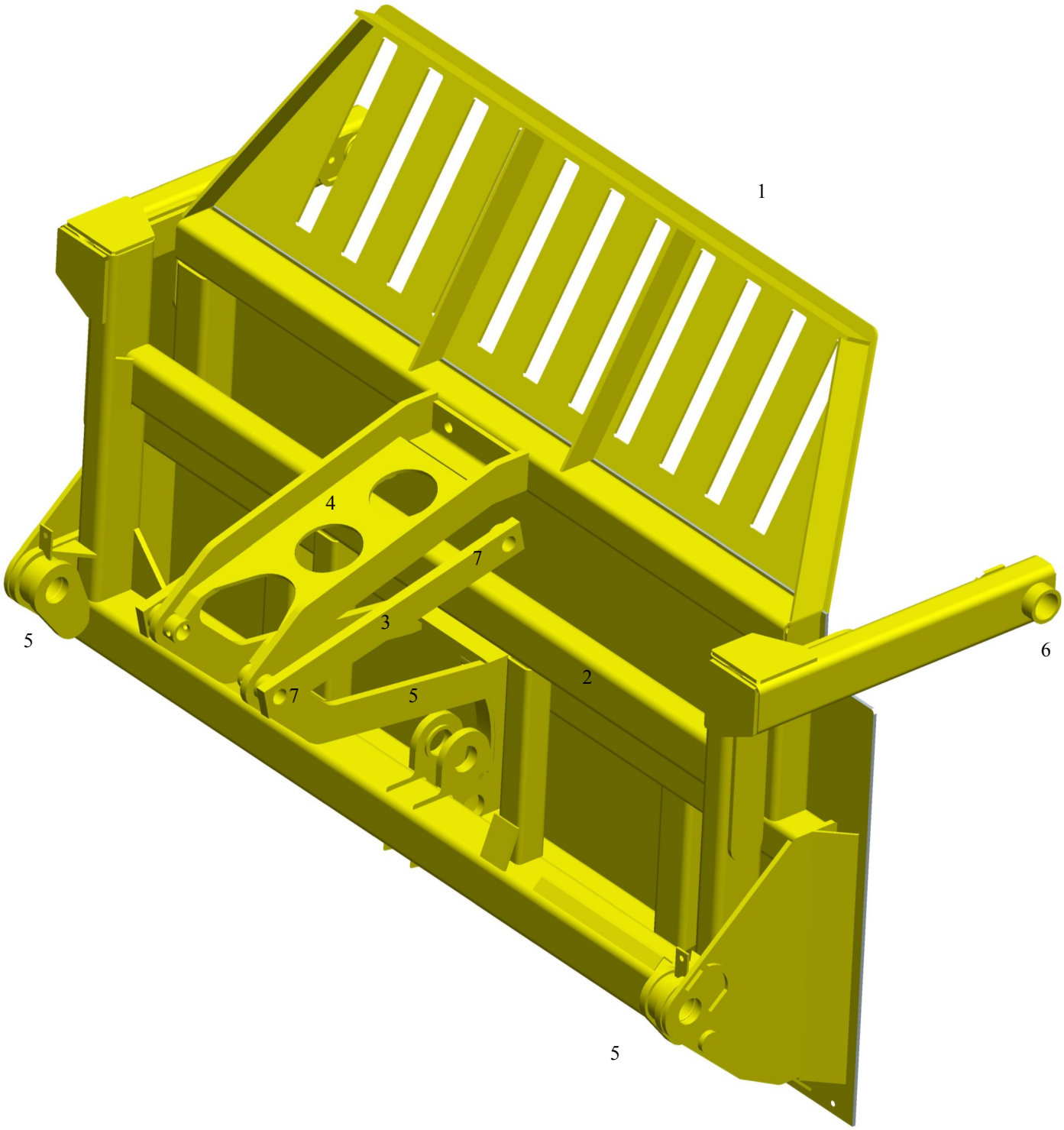
Ref #	Part #	Description	Qty
1.	4001545	Cutting Edge, 7/8x13x23.75	2
2.	4000958	Cutting Edge, 7/8x16x48	1
3.	4001539	Spindle, 20,000#	2
4.	4001541	Spindle, 12,000#	2
5.	ICO2229	Push Off Frame	1
6.	ICO1133	Pin, 2.5 x 5.75	7
7.	ICO2253	Dolly Hitch Pivot	1
8.	ICO2259	Pin, 12.75"	1
9.	ICO2258	Pin, 13 5/8"	2
10.	4001542	Hyd. Cyl. 4.5 x 32 (push off)	1

AG-10 Assembled View



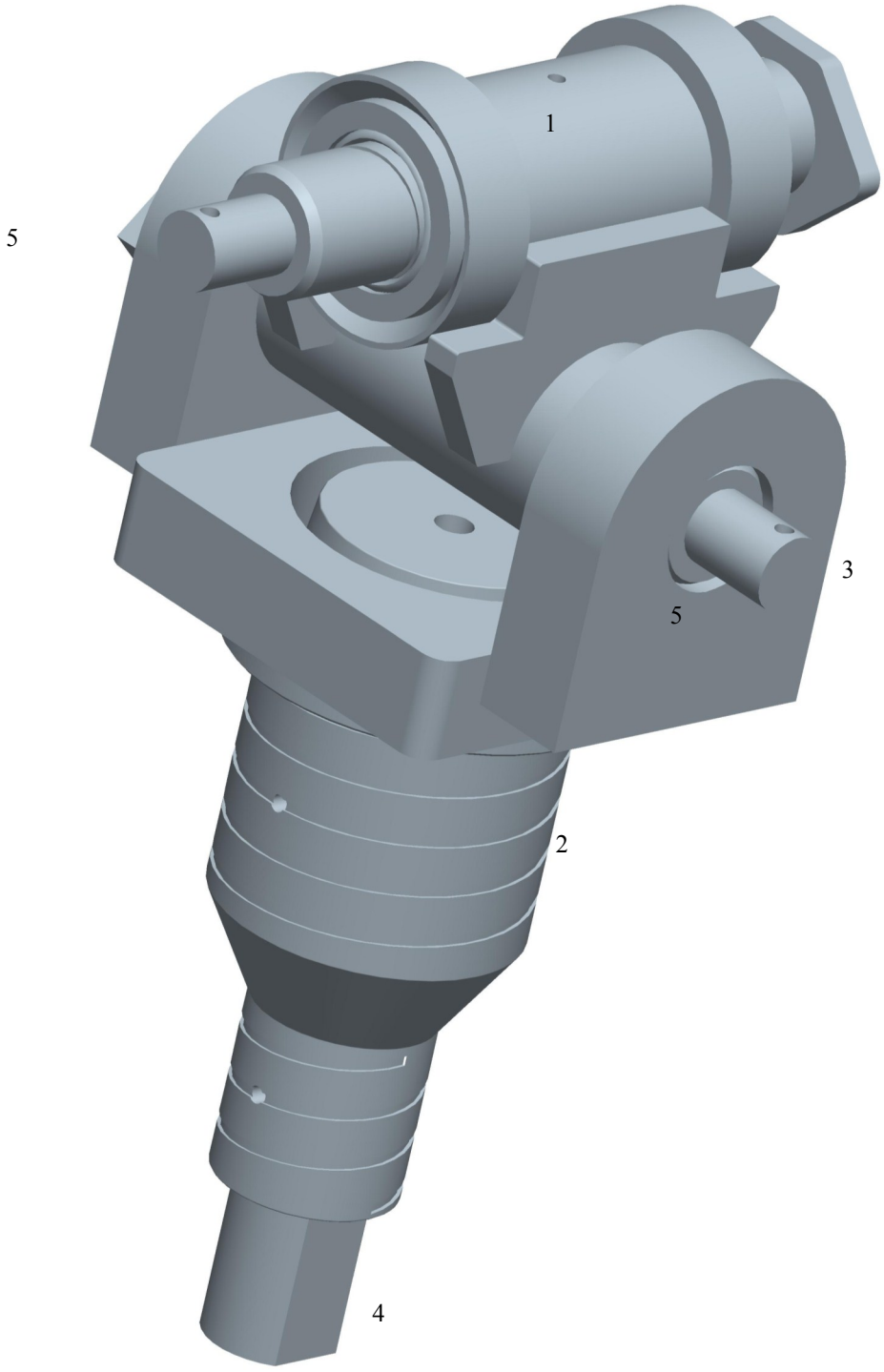


Push Off Wall Assembly



Ref #	Part #	Description	Qty
1.	ICO2230	Push Off Wall	1
2.	ICO2229	Push Off Frame	1
3.	ICO2228	Push Off Linkage	2
4.	ICO2232	Push Off Support	1
5.	ICO1133	Pin, 2.5 x 5.75	7
6.	ICO0525	Pin, 2.5 x 10.75	2
7.	ICO2045	Pin, 1.5 x 4.25 chrome	4

Dolly Hitch Components



Ref #	Part #	Description	Qty
1	ICO2252	Dolly Hitch Cross	1
2	ICO2253	Dolly Hitch Pivot	1
3	ICO1066	MDU Hitch Pin 14”	2
4	NH 2 1/2	Nut, Hex 2 1/2”	1
5	NH 1 1/2	Nut, Hex 1 1/2”	2

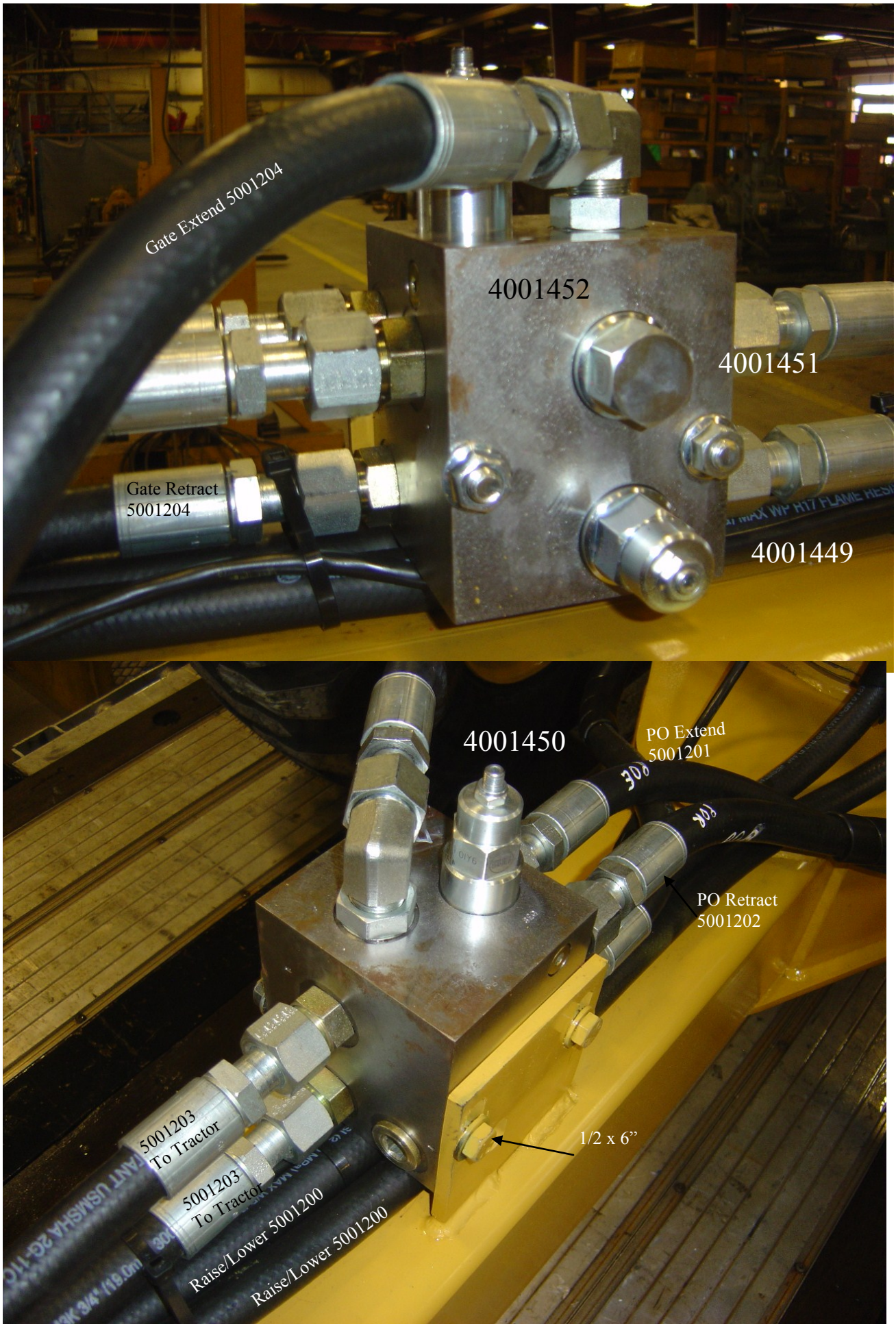
4001548 Category 4
106,000 lb rating

AG - 10 Bolt Listing

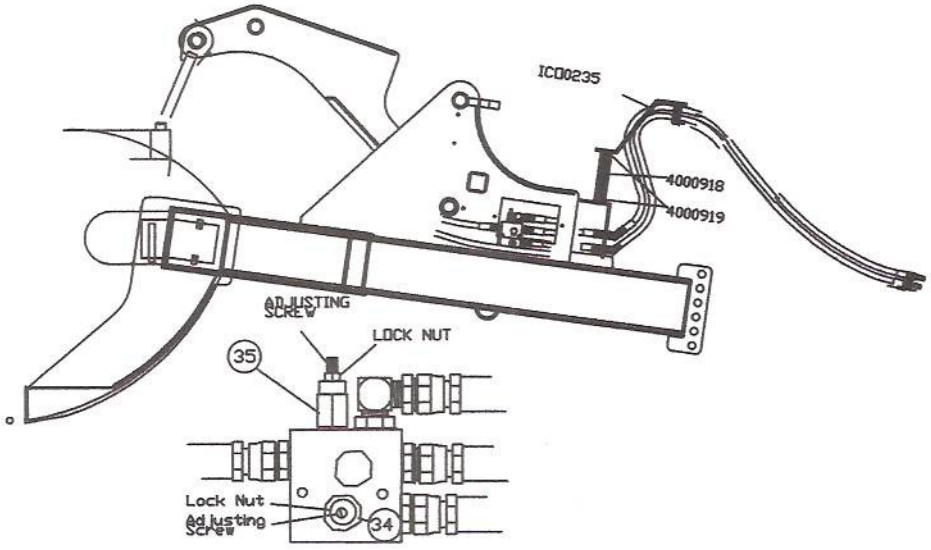
Where Used	Description	Qty
Frost Bit and Cutting Edges	BP, Bolt, Plow 1 x 2 1/2”	16
	WFH, Washer, Flat, Hard 1”	16
	NJ, Nut, Jam 1”	16
Router Bits	BP, Bolt, Plow 3/4 x 2 1/2”	10
	WFH, Washer, Flat, Hard 3/4”	10
	NJ, Nut, Jam 3/4”	10
Push Off Support	BH, Bolt, Hex 1 x 6 1/2”	4
	NL, Nut, Nyloc 1”	4
	WF, Washer, Flat 1”	4
	WFH, Washer, Flat, Hard 1”	4
PO Wearstrip	BC, Bolt, Carriage 1/2 x 1 1/2”	10
	WFH, Washer, Flat, Hard 1/2”	10
	NH, Nut, Hex 1/2”	10
PO Linkage Pins (1 1/2)	BH, Bolt, Hex 1/2 x 3”	4
	NL, Nut, Nyloc 1/2”	4
PO Frame to Main Frame	WM, Washer, Machine 2.5 x 3.5OD	8
PO Frame to PO Wall	WM, Washer, Machine 2.5 x 3.5OD	4
PO Pin Caps	BH, Bolt, Hex 5/8 x 1 1/2”	4
	WFH, Washer, Flat, Hard 5/8”	4
Gate to MF and Cyl.	NJ, Nut, Jam 1 1/2”	4
	WFH, Washer, Flat, Hard 1 1/2”	4
	(4001521) Woodruf Key 1 x 1/4”	4
	(4001499) Washer, Lock 2.46x1.58	4
Side Shields (gate cyl)	BH, Bolt, Hex 1/2 x 1”	8
	WFH, Washer, Flat, Hard 1/2”	8
Side Shields	BH, Bolt, Hex 1/2 x 1”	8
	WFH, Washer, Flat, Hard 1/2”	8
Hyd. Block	BH, Bolt, Hex 1/2 x 6”	2
	WF, Washer, Flat, 1/2”	4
	NW, Nut, Whiz 1/2”	2

Bolt Listing (cont)

Where Used	Description	Qty
Light Brackets	BH, Bolt, Hex 1/2 x 1”	4
	WFH, Washer, Flat, Hard 1/2”	4
Lights to Bracket	BH, Bolt, Hex 1/4 x 1 1/4”	8
	NW, Nut, Whiz 1/4”	8
Hose Clamps	NL, Nut, Nyloc 1/2”	11
	WFH, Washer, Flat, Hard 1/2”	11
Gate Safety Stop	BH, Bolt, Hex 1 x 6 1/2”	1
	WFH, Washer, Flat, Hard 1”	1
	NL, Nut, Nyloc 1”	1
Hitch Cross to Gooseneck	NC, Nut, Castle 1 1/2”	2
	WFH, Washer, Flat, Hard 1 1/2”	6
	PC, Pin, Cotter 5/16 x 2 1/2”	2
Pin Keepers	BH, Bolt, Hex 3/4 x 1 1/2”	11
	BH, Bolt, Hex 3/4 x 1 3/4”	2
	WFH, Washer, Flat, Hard 3/4”	13
Spindle Keepers	BH, Bolt, Hex 5/8 x 7”	2
	BH, Bolt, Hex 5/8 x 9”	2
	NL, Nut, Nyloc 5/8”	4
Depth Gauge	NL, Nut, Nyloc 5/8”	1
	WF, Washer, Flat 5/8”	1
Dolly Transport Strap	NL, Nut, Nyloc 3/4”	2
	WF, Washer, Flat 3/4”	2
Clevis To Dolly	NJL, Nut, Jam Nyloc 1 1/2”	1
	WF, Washer, Flat 1 1/2”	1
	WFH, Washer, Flat, Hard 1 1/2”	1
Pintle To Clevis	BH, Bolt, Hex 1 x8 1/2”	2
	WFH, Washer, Flat, Hard 1”	2
	NL, Nut, Nyloc 1”	2
Safety Stop (lidt)	(4000923) Pin, Clevis 1/2 x 4 1/2”	1
	(4001443) Bridge Pin 3 x 5/32”	1
Dolly Pivot to Dolly	NS, Nut, Slotted 2 1/2” Course	1
Clevis Safety	PCL, Pin, Wire Lock 1/4 x 3”	1


Gate Extend 5001204
4001452
4001451
Gate Retract
5001204
4001449
4001450
PO Extend
5001201
PO Retract
5001202
1/2 x 6”
5001203
To Tractor
5001203
To Tractor
Raise/Lower 5001200
Raise/Lower 5001200

Valve Adjustment
2 - valve hydraulics



Valve Adjustment

Problem:
Push wall comes forward before gate is fully up.
Answer:
*Loosen locknut on top of valve
*Adjust sequence valve 1/4 turn clockwise and check performance.
*Repeat until remedied
*Retighten locknut

Problem:
Gate comes down before push wall is fully back.
Answer:
*Adjust counterbalance valve (located on side of valve block in tongue)
*Loosen locknut on tup of valve
*Adjust counterbalance valve 1/4 turn counterclockwis and check performance.
*Repeat until remedied
*Retighten locknut.

AG - 10 Hydraulics

Hydraulic Hose 5001205 and 5001206 (2 ea) are ran through the tube and covered by the side shields. They run to the gate cylinders.
ICON

Hydraulic Hose Listing (5001199)

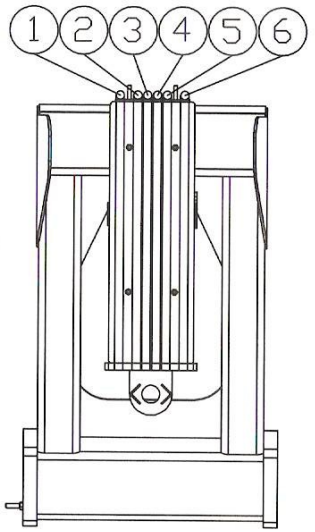
Part #	Description	Qty
5001200	Hose, 12FFORX-12M3K x 328” - 12MB	2
5001201	Hose, 12FFORX-12M3K x 522” - 12FFOR	1
5001202	Hose, 12FFORX -12M3K x 540” - 12FFOR	1
5001203	Hose, 12FFORX - 12M3K x 132” - 12MB	2
5001204	Hose, 12FFORX - 12M3K x 225” - 12FFOR	2
5001205	Hose, 8FFORX - 8M3K x 72” - 8FFORX	2
5001206	Hose, 8FFORX - 8M3K x 92” - 8FFORX	2
	Fittings (5001198)	
5000793	Hyf-EL. FF 12MFFOR-12MB90	4
5000796	Hyf-45, FF 12NFFIR-12MB45	1
5001207	Hyf-45. FF 8MFFOR-8MB45	4
5001208	Hyf-Adap 8MFFOR-12FFOR	4
5000983	Hyf-TEE 12MFFORT	2
5000833	Hyf-Adap 12MB-12MFFOR	5
5000424	Hyf-Plug 12MB-HH Plug	1
5000836	Hyf-Adap 10MB-12FB	4
5000835	Hyf-Pioneer Male 8010-16P 10FB	4
5001152	Hyf-El 4MJ-4FJX90	2
5000478	Hyf-Adap JIC 4MJBH-2FP	2

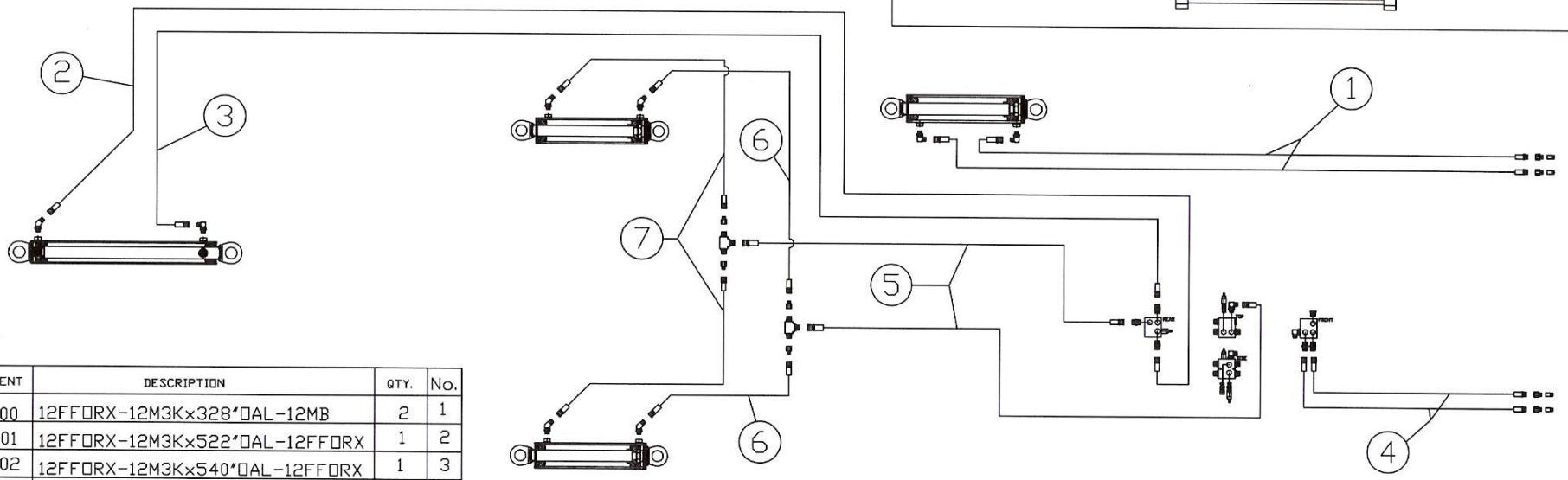
5001152
5000478
5000793
5001152
5000478
5001201
5001202
5001207
5001205
5001205
5001207
5001206
5001206
5000793
5001208
5000983
5001204
5000833
5000424
5001204
5001203
5001200
5001203
5001200
5000836
5000835

AG10 SINGLE
HOSES

1	GATE EXTEND
2	GATE RETRACT
3	LIFT RAISE
4	LIFT LOWER
5	PUSH OFF EXTEND
6	PUSH OFF RETRACT

GOOSENECK
FRONT VIEW





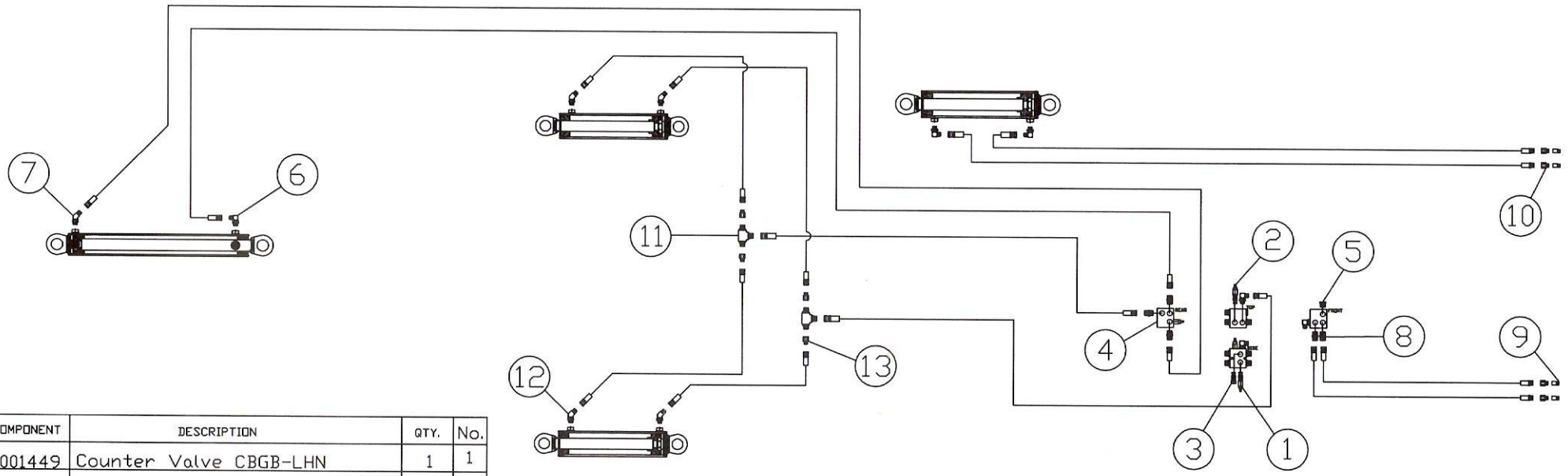
COMPONENT	DESCRIPTION	QTY.	No.
5001200	12FFORX-12M3K×328"OAL-12MB	2	1
5001201	12FFORX-12M3K×522"OAL-12FFORX	1	2
5001202	12FFORX-12M3K×540"OAL-12FFORX	1	3
5001203	12FFORX-12M3K×132"OAL-12MB	2	4
5001204	12FFORX-12M3K×225"OAL-12FFORX	2	5
5001205	8FFORX-8M3K×72"OAL-8FFORX	2	6
5001206	8FFORX-8M3K×92"OAL-8FFORX	2	7

5001199 HOSE

ICON INDUSTRIES INCORPORATED

4
REAR
3
SIDE
TOP
2
1
FRONT
5
8

AG10 SINGLE
FITTINGS AND VALVES



COMPONENT	DESCRIPTION	QTY.	No.
4001449	Counter Valve CBGB-LHN	1	1
4001450	Sequence Valve SCGA-LA	1	2
4001451	Pilot Chk Valve CKGB-XCN	1	3
4001452	Valve Block 15-5376	1	4
5000424	12MB-HH PLUG	1	5
5000793	12MFFOR-12MB90	4	6
5000796	HYF-45, 12MFFOR-12MB45	1	7
5000833	12MB-12MFFOR	5	8
5000835	PIONEER 1/2 M END 8010-16P-10FB	4	9
5000836	ADAP 10MB-12FB	4	10
5000983	TEE, 12MFFORT	2	11
5001207	HYF-45, 8MFFOR-8MB45	4	12
5001208	HYF-ADAP, 8MFFOR-12FFOR	4	13

5001198 FITTINGS

ICON INDUSTRIES INCORPORATED
1600 W. 8TH BELOIT KANSAS 67420

AG - 10 Cutting Edges

Part #	Description	Qty
4000958	Cutting Edge - 7/8 x 16 x 48 (center bit)	1
4001545	Cutting Edge - 7/8 x 13 x 23.75	2
ICO2172	Left Side Router Bit	1
ICO2173	Right Side Router Bit	1
ICO2262	Push Off Wear Strip (4’)	2

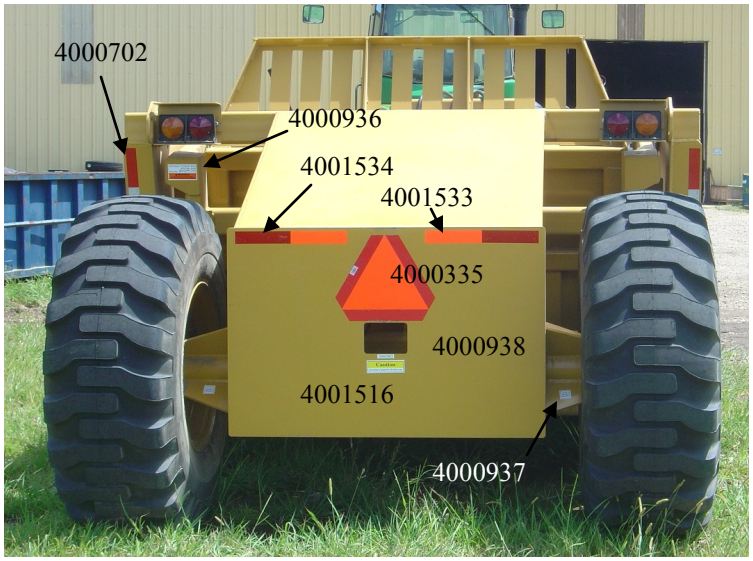
Hardware Required

Cutting Edges use 1” x 2 1/2” Grade 8 Plow Bolts	16 total
Wear Strips use 1/2” x 1 1/2” Carriage Bolts	10 total
Side Router Bits use 3/4” x 2 1/2” Plow Bolts	5 ea.

Decal Listing For AG - 10

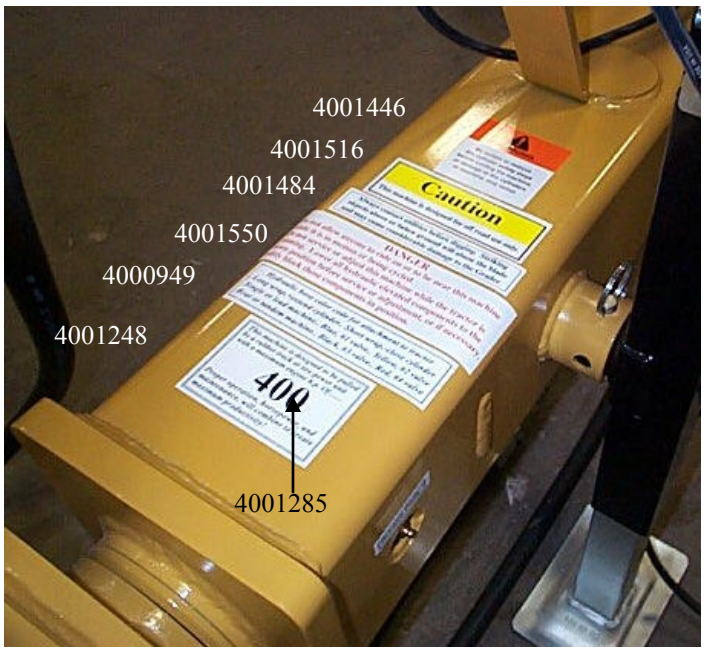
Part #	Description	Location	Qty
4000931	Warning, High Pressure	Cyls, & Pressure Lines	4
4000935	Parts Manual	Manual Tube	1
4000937	3 Pumps of grease weekly	Hubs	4
4000938	Grease Daily	All zerk locations	24
4000940	Danger Pinch	All Pivot Points	4
4001418	Depth Gauge	Gauge Rod	1
4000396	Gate Gauge	Right Side of Gate	1
4000949	Hyd. Color Codes	Front of Tongue	1
4001564	Tire Pressure 20.5	Rear Frame/near tires	2
4001560	Tire Pressure 15x19.5	Front Dolly near tires	2
4001445	Safety Stops	Near Safety Stops	2
4001446	Remove Safety Stops	Front, Near Stops	3
4000372	Warning, Moving Parts	Near Moving Components	6
4001546L	Hitch Decal (left side)	Top of Dolly Frame	1
4001546R	Hitch Decal (right side)	Top of Dolly Frame	1
4001547L	Side Decal (left side)	Side of Machine	1
4001547R	Side Decal (right side)	Side of Machine	1
4000335	Slow Moving Vehicle	Rear Center of Frame	1
4001535	Ref Tape (yellow)	Front and Side of Machine	4
4001534	Ref Tape (red)	Back of Machine	2
4001533	Ref Tape (orange)	Back of Machine	2
4001285	Horsepower Rating (400)	Front of Tongue	1
4001516	Off Road Use Only	Front of Tongue	1
4000941	To Prevent A Hazardous Situation	Side of Dolly Frame	2
4000702	Ref Tape (red/silver) 18”	Vertical on Rear Frame	2
4001522	Landoll/ICON (black)	Upper Side of Machine	2
4001551	Warning: remove transport bracket	Rear of dolly, near bracket	2
4001248	Machine to be pulled with	Front of Tongue	1
4001484	Contact utilities before digging	Front of Tongue	1
4001550	Allow no riders	Front of Tongue	1

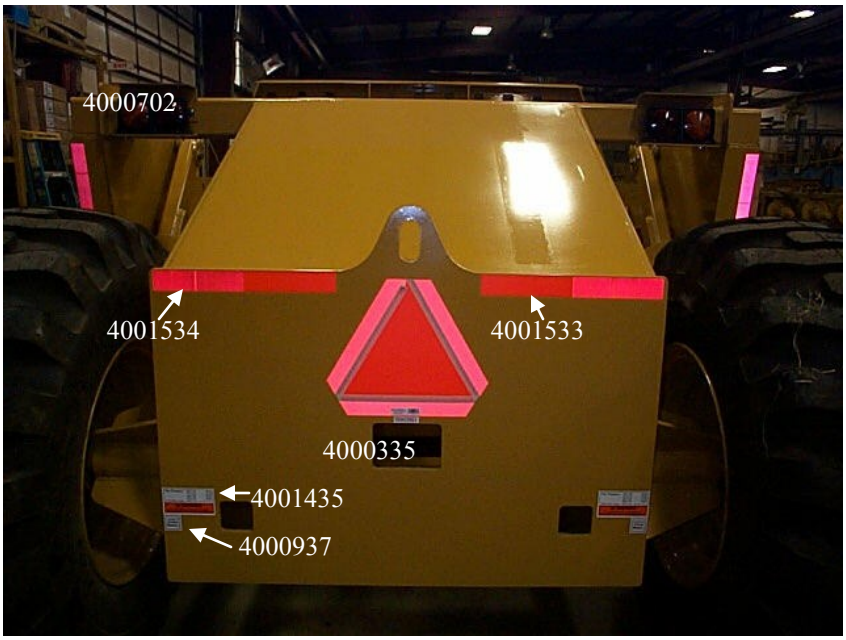
Decal Location AG 10
Decal Kit—#2000638



4000931
4000940 both sides
4001446
4001445
4001535
4000372 both sides
4000941 both sides
4000372 both sides
4000931
4000940 both sides
4001551 both sides

Yellow
ICON/Landoll

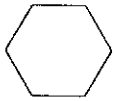

4001446
4001516
4001484
4001550
4000949
4001248
4001285


4000702
4001534
4001533
4000335
4001435
4000937

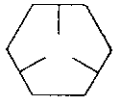
TORQUE VALUES CHART – PLATED HARDWARE

Bolt Diameter	Grade 2		Grade 5		Grade 8	
	Course	Fine	Course	Fine	Course	Fine
1/4"	50 In. Lbs.	56 In. Lbs.	76 In. Lbs.	87 In. Lbs.	9 Ft. Lbs.	10 Ft. Lbs.
5/16"	8 Ft. Lbs.	9 Ft. Lbs.	13 Ft. Lbs.	14 Ft. Lbs.	18 Ft. Lbs.	20 Ft. Lbs.
3/8"	15 Ft. Lbs.	17 Ft. Lbs.	23 Ft. Lbs.	26 Ft. Lbs.	33 Ft. Lbs.	37 Ft. Lbs.
7/16"	25 Ft. Lbs.	27 Ft. Lbs.	37 Ft. Lbs.	41 Ft. Lbs.	52 Ft. Lbs.	58 Ft. Lbs.
1/2"	35 Ft. Lbs.	40 Ft. Lbs.	57 Ft. Lbs.	64 Ft. Lbs.	80 Ft. Lbs.	90 Ft. Lbs.
9/16"	50 Ft. Lbs.	60 Ft. Lbs.	80 Ft. Lbs.	90 Ft. Lbs.	115 Ft. Lbs.	130 Ft. Lbs.
5/8"	70 Ft. Lbs.	80 Ft. Lbs.	110 Ft. Lbs.	125 Ft. Lbs.	160 Ft. Lbs.	180 Ft. Lbs.
3/4"	130 Ft. Lbs.	145 Ft. Lbs.	200 Ft. Lbs.	220 Ft. Lbs.	280 Ft. Lbs.	315 Ft. Lbs.
7/8"	125 Ft. Lbs.	140 Ft. Lbs.	320 Ft. Lbs.	350 Ft. Lbs.	450 Ft. Lbs.	500 Ft. Lbs.
1"	190 Ft. Lbs.	205 Ft. Lbs.	480 Ft. Lbs.	530 Ft. Lbs.	675 Ft. Lbs.	750 Ft. Lbs.
1 1/8"	265 Ft. Lbs.	300 Ft. Lbs.	600 Ft. Lbs.	670 Ft. Lbs.	960 Ft. Lbs.	1075 Ft. Lbs.
1 1/4"	375 Ft. Lbs.	415 Ft. Lbs.	840 Ft. Lbs.	930 Ft. Lbs.	1360 Ft. Lbs.	1500 Ft. Lbs.
1 3/8"	490 Ft. Lbs.	560 Ft. Lbs.	1100 Ft. Lbs.	1250 Ft. Lbs.	1780 Ft. Lbs.	2030 Ft. Lbs.
1 1/2"	650 Ft. Lbs.	730 Ft. Lbs.	1450 Ft. Lbs.	1650 Ft. Lbs.	2307 Ft. Lbs.	2670 Ft. Lbs.

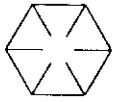
NOTE: Unplated bolts should be torqued approximately 1/3 higher than the above values. Bolts having lock nuts should be tightened to approximately 50% of amounts shown in chart. Bolts lubricated prior to installation should be torqued to 70% of value shown on chart.



Grade 2
No Marks



Grade 5
3 Marks



Grade 8
6 Marks

AG - 10 Earthmover
Assembly, Lube and Check List

_____1. Install Cutting Bits, and Side Router Bits. Torque all mounting bolts.

_____2. Install Lift Cylinder. Torque all pin retaining bolts.

_____3. Position and pin Eject Wall. Install Eject Cylinder and Linkage. Torque all retaining bolts. Install the depth gauge components.

_____4. Locate and pin front gate and gate lift assembly. Install gate cylinders. Torque all retaining bolts.

_____5. Install front Dolly Hitch Assembly. Torque all pin retaining bolts.

_____6. Install axle and wheel components. Torque all retaining bolts.
Inflate tires to required PSI.

_____7. Locate and assemble all hydraulic fittings, hoses and blocks. Properly tighten fittings, taking care not to overtighten. Install the proper markings to each hose and apply color coded hose wrap.

_____8. Install safety lighting components, route wiring and install plug retainer. Cycle and check lighting system with 12 volt system tester.

_____9. Lubricate all moving components with high temperature grease.

_____10. Fill hydraulic system with Mobil 424 hydraulic oil. Using hydraulic pump, activate all moving parts and bleed air from the system (if necessary). Hold 3000 PSI hydraulic pressure against all cylinders, fittings, and hoses for a minimum of 4 minutes. Check all components for leaks.

_____11. Install all side covers and shields. Torque all retaining bolts.

_____12. Clean and touch up paint the machine. Attach the manual container.

_____13. Apply the serial tag, operations, lube and identification decals.

_____14. Check function and proper engagement of all safety stops.

ICON Supervisor Signature: All of the above listed assembly and check functions have been completed per my rigid standards.

Serial #_____ _____
checked by

Date:_____ _____
Supervisor

Customer Copy

AG - 10 Earthmover
Assembly, Lube and Check List

_____1. Install Cutting Bits, and Side Router Bits. Torque all mounting bolts.

_____2. Install Lift Cylinder. Torque all pin retaining bolts.

_____3. Position and pin Eject Wall. Install Eject Cylinder and Linkage. Torque all retaining bolts. Install the depth gauge components.

_____4. Locate and pin front gate and gate lift assembly. Install gate cylinders. Torque all retaining bolts.

_____5. Install front Dolly Hitch Assembly. Torque all pin retaining bolts.

_____6. Install axle and wheel components. Torque all retaining bolts.
Inflate tires to required PSI.

_____7. Locate and assemble all hydraulic fittings, hoses and blocks. Properly tighten fittings, taking care not to overtighten. Install the proper markings to each hose and apply color coded hose wrap.

_____8. Install safety lighting components, route wiring and install plug retainer. Cycle and check lighting system with 12 volt system tester.

_____9. Lubricate all moving components with high temperature grease.

_____10. Fill hydraulic system with Mobil 424 hydraulic oil. Using hydraulic pump, activate all moving parts and bleed air from the system (if necessary). Hold 3000 PSI hydraulic pressure against all cylinders, fittings, and hoses for a minimum of 4 minutes. Check all components for leaks.

_____11. Install all side covers and shields. Torque all retaining bolts.

_____12. Clean and touch up paint the machine. Attach the manual container.

_____13. Apply the serial tag, operations, lube and identification decals.

_____14. Check function and proper engagement of all safety stops.

Comments:_____
_____
_____
_____
_____
_____

Serial #_____Date_____ _____
Supervisor

Product Support Copy

Please take the time to register your machine online to be eligible for warranty, if needed.

1. Go to WWW.Landoll.com
2. Click on support services
3. On left hand side, click on warranty processing
4. Pop up box will ask for user name and password
5. Enter word **dealer** in user name and **landoll** in password
6. Click on ag registration, and enter info. Your machine will be registered.

LANDOLL CORPORATION

Product Warranty

LANDOLL CORPORATION 1600 W. 8th St. Beloit KS 67420
(referred to as LANDOLL in this document)

LANDOLL *shall Warrant workmanship and materials on the* **ICON Farm Products** *for a period of 270 calendar days from the date of original purchase, lease, or rental, from the original Dealer, and in accordance with the following terms and conditions.*

Should any part or component fail within the Warranty period, and under normal use conditions, LANDOLL shall supply a new part or component for replacement through the original Dealer. Cost of normal ground freight, for that part or component to the Dealer, shall be paid by LANDOLL. Repair and replacement labor cost, from the original Dealer, shall be paid by LANDOLL at a rate negotiated by LANDOLL.

No further expense shall be paid by LANDOLL, *including but not limited to, loss of time or income.*

LANDOLL *shall not provide Warranty on any part or component that has failed due to abuse, misuse, alteration, improper maintenance, or normal wear. Failure occurring while being pulled by a tractor in excess of engine horsepower, as described in the owners manual and/or posted on the machine, is considered abuse and misuse and shall not receive Warranty. Warranty applies only to normal. intermittent agricultural use, and not commercial or industrial use.*

In regard to some components manufactured by other companies and sold by LANDOLL, *including but not limited to tires, said Warranty shall be provided solely by that manufacturing company.*

This Warranty applies to products sold in the United States and Canada, and is made expressly in place of all other warranties, expressed or Implied.